

Exploring the Extreme			
2007 Mathematics			
State Frameworks			
Mississippi Mathematics			
Grade 2			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	MS	MA.2.4.a	Select appropriate tools and units, estimate, and measure length (to the nearest inch, foot, yard, centimeter, and meter), capacity (to the nearest ounce, cup, pint, quart, gallon, and liter), and weight (to the nearest ounce, pound, gram, and kilogram).
Exploring the Extreme			
2007 Mathematics			
State Frameworks			
Mississippi Mathematics			
Grade 3			
Activity/Lesson	State	Standards	
Changing the Center of Gravity Using Moment Arms	MS	MA.3.2.b	Determine the value of missing quantities or variables within equations or number sentences, and justify the process used.
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2007 Mathematics			
State Frameworks			
Mississippi Mathematics			
Grade 4			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	MS	MA.4.4.d	Use appropriate tools to determine, estimate, and compare units for measurement of weight/mass, area, size of angle, temperature, length, distance, and volume in English and metric systems and time in real-life situations.
Finding the Center of Gravity Using Plumb Lines	MS	MA.4.4.d	Use appropriate tools to determine, estimate, and compare units for measurement of weight/mass, area, size of angle, temperature, length, distance, and volume in English and metric systems and time in real-life situations.
Changing the Center of Gravity Using Moment Arms	MS	MA.4.4.d	Use appropriate tools to determine, estimate, and compare units for measurement of weight/mass, area, size of angle, temperature, length, distance, and volume in English and metric systems and time in real-life situations.
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Grade 5			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	MS	MA.5.4.a	Estimate and measure length to nearest millimeter in the metric system and one-sixteenth inch in the English system.
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2007 Mathematics			
State Frameworks			
Mississippi Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
Vectoring	MS	MA.6.4.f	Apply techniques and tools to accurately find length, area, and angle measures to appropriate levels of precision.
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State Frameworks			
Mississippi Mathematics			
Grade 7			
Activity/Lesson	State	Standards	
Vectoring	MS	MA.7.3.f	Construct and classify angles.
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2007 Mathematics			
State Frameworks			
Mississippi Mathematics			
Grades 7-8			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	MS	MA.7-8.PA.4.a	Solve real-world application problems that include length, area, perimeter, and circumference using standard measurements.
Exploring the Extreme			
2007 Mathematics			
State Frameworks			
Mississippi Mathematics			
Grades 8-9			
Activity/Lesson	State	Standards	
Center of Gravity, Pitch, Yaw	MS	MA.8-9.TA.4.a	Solve real-world problems involving measurements (i.e., circumference, perimeter, area, volume, distance, temperature, etc.).
Fuel Efficiency	MS	MA.8-9.TA.2.b	Explain and illustrate how changes in one variable may result in a change in another variable.